

# Philippe Yamato

## List of Publications by Citations

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51  
papers

2,109  
citations

24  
h-index

45  
g-index

57  
ext. papers

2,382  
ext. citations

4.4  
avg. IF

4.97  
L-index

#	Paper	IF	Citations
51	Exhumation of oceanic blueschists and eclogites in subduction zones: Timing and mechanisms. <i>Earth-Science Reviews</i> , <b>2009</b> , 92, 53-79	10.2	406
50	HP-UHP exhumation during slow continental subduction: Self-consistent thermodynamically and thermomechanically coupled model with application to the Western Alps. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 271, 63-74	5.3	135
49	Burial and exhumation in a subduction wedge: Mutual constraints from thermomechanical modeling and natural P-T-t data (Schistes Lustrés, western Alps). <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		132
48	Transient, synobduction exhumation of Zagros blueschists inferred from P-T, deformation, time, and kinematic constraints: Implications for Neotethyan wedge dynamics. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		123
47	Subduction interface processes recorded by eclogite-facies shear zones (Monviso, W. Alps). <i>Lithos</i> , <b>2011</b> , 127, 222-238	2.9	109
46	Continental plate collision, P-T conditions and unstable vs. stable plate dynamics: Insights from thermo-mechanical modelling. <i>Lithos</i> , <b>2008</b> , 103, 178-204	2.9	98
45	Plate interface rheological switches during subduction infancy: Control on slab penetration and metamorphic sole formation. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 451, 208-220	5.3	88
44	Effect of fluid circulation on subduction interface tectonic processes: Insights from thermo-mechanical numerical modelling. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 357-358, 238-248	5.3	67
43	Eclogite breccias in a subducted ophiolite: A record of intermediate-depth earthquakes?. <i>Geology</i> , <b>2012</b> , 40, 707-710	5	66
42	Influence of surrounding plates on 3D subduction dynamics. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	59
41	Dynamic constraints on the crustal-scale rheology of the Zagros fold belt, Iran. <i>Geology</i> , <b>2011</b> , 39, 815-818	5.3	58
40	Mechanisms of continental subduction and exhumation of HP and UHP rocks. <i>Gondwana Research</i> , <b>2014</b> , 25, 464-493	5.1	56
39	Petrological evidence for stepwise accretion of metamorphic soles during subduction infancy (Semail ophiolite, Oman and UAE). <i>Journal of Metamorphic Geology</i> , <b>2017</b> , 35, 1051-1080	4.4	56
38	Tectonic record, magmatic history and hydrothermal alteration in the Hercynian Guérande leucogranite, Armorican Massif, France. <i>Lithos</i> , <b>2015</b> , 220-223, 1-22	2.9	51
37	New, high-precision P-T estimates for Oman blueschists: implications for obduction, nappe stacking and exhumation processes. <i>Journal of Metamorphic Geology</i> , <b>2007</b> , 25, 657-682	4.4	49
36	Thermo-mechanical modeling of the obduction process based on the Oman Ophiolite case. <i>Gondwana Research</i> , <b>2016</b> , 32, 1-10	5.1	45
35	Taiwan mountain building: insights from 2-D thermomechanical modelling of a rheologically stratified lithosphere. <i>Geophysical Journal International</i> , <b>2009</b> , 176, 307-326	2.6	42

34	Rheological and geodynamic controls on the mechanisms of subduction and HP/UHP exhumation of crustal rocks during continental collision: Insights from numerical models. <i>Tectonophysics</i> , <b>2014</b> , 631, 212-250	3.1	36
33	Metamorphic record of catastrophic pressure drops in subduction zones. <i>Nature Geoscience</i> , <b>2017</b> , 10, 46-50	18.3	35
32	Episodic slab rollback fosters exhumation of HP/UHP rocks. <i>Geophysical Journal International</i> , <b>2009</b> , 179, 1292-1300	2.6	33
31	Structural evolution of a three-dimensional, finite-width crustal wedge. <i>Tectonophysics</i> , <b>2010</b> , 484, 181-192	3.2	32
30	Numerical modelling of magma transport in dykes. <i>Tectonophysics</i> , <b>2012</b> , 526-529, 97-109	3.1	27
29	Fluid pathways and high-P metasomatism in a subducted continental slice (Mt. Emilius klippe, W. Alps). <i>Journal of Metamorphic Geology</i> , <b>2017</b> , 35, 471-492	4.4	25
28	Passive margins getting squeezed in the mantle convection vice. <i>Tectonics</i> , <b>2013</b> , 32, 1559-1570	4.3	24
27	The Minimized Power Geometric model: An analytical mixing model for calculating polyphase rock viscosities consistent with experimental data. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 3897-3924	3.6	23
26	New U-Pb zircon and <sup>40</sup> Ar/ <sup>39</sup> Ar muscovite age constraints on the emplacement of the Lizio syn-tectonic granite (Armorican Massif, France). <i>Comptes Rendus - Geoscience</i> , <b>2011</b> , 343, 443-453	1.4	21
25	Subducting slabs: Jellyfishes in the Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2010</b> , 11, n/a-n/a	1.6	21
24	A free surface capturing discretization for the staggered grid finite difference scheme. <i>Geophysical Journal International</i> , <b>2016</b> , 204, 1518-1530	2.6	19
23	Quantifying magma segregation in dykes. <i>Tectonophysics</i> , <b>2015</b> , 660, 132-147	3.1	18
22	Ultraslow, slow, or fast spreading ridges: Arm wrestling between mantle convection and far-field tectonics. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 429, 205-215	5.3	16
21	Major role of shear heating in intracontinental inverted metamorphism: Inference from a thermo-kinematic parametric study. <i>Tectonophysics</i> , <b>2013</b> , 608, 812-831	3.1	16
20	Evidence for brittle deformation events at eclogite-facies P-T conditions (example of the Mt. Emilius klippe, Western Alps). <i>Tectonophysics</i> , <b>2017</b> , 706-707, 1-13	3.1	15
19	Brittle/Ductile Deformation of Eclogites: Insights From Numerical Models. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 3116-3133	3.6	15
18	Thermal structure of a major crustal shear zone, the basal thrust in the Scandinavian Caledonides. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 385, 162-171	5.3	15
17	Modeling of wind gap formation and development of sedimentary basins during fold growth: application to the Zagros Fold Belt, Iran. <i>Earth Surface Processes and Landforms</i> , <b>2016</b> , 41, 1521-1535	3.7	12

16	A dimensional analysis to quantify the thermal budget around lithospheric-scale shear zones. <i>Terra Nova</i> , <b>2015</b> , 27, 163-168	3	10
15	Toward Robust and Predictive Geodynamic Modeling: The Way Forward in Frictional Plasticity. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086027	4.9	10
14	Strain localization mechanisms for subduction initiation at passive margins. <i>Global and Planetary Change</i> , <b>2020</b> , 195, 103323	4.2	10
13	The influence of surface slope on the shape of river basins: Comparison between nature and numerical landscape simulations. <i>Geomorphology</i> , <b>2013</b> , 192, 71-79	4.3	7
12	Precambrian deformation belts in compressive tectonic regimes: A numerical perspective. <i>Tectonophysics</i> , <b>2020</b> , 777, 228350	3.1	6
11	Influence of the Thickness of the Overriding Plate on Convergence Zone Dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2020</b> , 21, e2019GC008678	3.6	5
10	Modeling Lithospheric Deformation Using a Compressible Visco-Elasto-Viscoplastic Rheology and the Effective Viscosity Approach. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009675	3.6	4
9	Advances and challenges in geotectonic modelling. <i>Bulletin - Societe Geologique De France</i> , <b>2014</b> , 185, 147-168	2.3	3
8	Pressure-to-Depth Conversion Models for Metamorphic Rocks: Derivation and Applications. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22,	3.6	3
7	On the meaning of peak temperature profiles in inverted metamorphic sequences. <i>Geophysical Journal International</i> , <b>2017</b> , 210, 130-147	2.6	2
6	Influence of magma-poor versus magma-rich passive margins on subduction initiation. <i>Gondwana Research</i> , <b>2021</b> ,	5.1	2
5	Extrusion of subducted crust explains the emplacement of far-travelled ophiolites. <i>Nature Communications</i> , <b>2021</b> , 12, 1499	17.4	1
4	Transient weakening during the granulite to eclogite transformation within hydrous shear zones (Holsnøy, Norway). <i>Tectonophysics</i> , <b>2021</b> , 229026	3.1	1
3	The transition from ancient to modern-style tectonics: Insights from lithosphere dynamics modelling in compressional regimes. <i>Gondwana Research</i> , <b>2021</b> , 99, 77-92	5.1	1
2	Reaction-induced volume change triggers brittle failure at eclogite facies conditions. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 117520	5.3	0
1	Reply to Comment by D. Jiang on Pressure-to-Depth Conversion Models for Metamorphic Rocks: Derivation and Applications. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009907	3.6	